# Extron® Electronics

INTERFACING, SWITCHING AND CONTROL

## 2012 NEW PRODUCTS

SECOND EDITION

# Extron®

## Satisfaction Guarantee

As a leading manufacturer in the AV industry, we are committed to engineering and manufacturing our products to the highest standards of quality, performance, and value. From our advanced product design, manufacturing and quality control procedures to our friendly and knowledgeable support teams, our commitment to satisfy you is paramount. In every interaction with Extron, you can be confident you will receive our S3 commitment to Service, Support, and Solutions. For more than 29 years, our objective has been to ensure that every customer is completely satisfied with every purchase.

To underscore this commitment, we offer our Satisfaction Guarantee. This means we will work diligently to resolve any issue you have with your purchase until you are completely satisfied. Extron employees are prepared to do whatever it takes to make certain that the entire process of doing business with us is a positive and professionally rewarding experience for you.

I'm so confident in our ability to deliver on this pledge that I back it personally. If you are not satisfied with any part of your transaction with Extron, I want to know. Please contact me at president@extron.com. I will personally address any unresolved customer issue. We greatly appreciate your business. It is our intent to keep you as a customer for life.

Andrew C. Edwards

President

# XTP SYSTEMS

## A Completely Integrated Solution for Digital AV Switching and Distribution

Extron XTP Systems provide a completely integrated switching and distribution solution for multiple digital and analog formats. They support local connectivity as well as extended transmission capability for sending high resolution video, audio, RS-232, Ethernet, and power up to 330 feet (100 m) over a single CAT 5-type cable.

### Easy to Set Up

XTP Systems can easily be set up and configured out of the box to save you time and money. Intuitive control software provides straightforward system configuration without complicated programming.

### Performance

XTP Systems deliver extremely high switching and transmission performance to support a wide range of video formats, including the highest resolution DVI and HDMI signals. The high data-rate digital backplane designed into the XTP CrossPoint digital matrix switchers provides a truly future-ready AV integration solution.

### Reliable

XTP Systems deliver robust system reliability and dependable switching of video signals through EDID and HDCP key management. Featuring advanced 24/7 system monitoring and hot-swappable modular components, XTP Systems are built for continuous, trouble-free operation in the most critical applications.

### Flexible System Designs

XTP Systems let you easily integrate digital and analog devices into your system design. Connect and switch between local devices, or extend to remote locations up to 330 feet away using just a single CAT 5-type cable that carries video, audio, RS-232 or IR control, Ethernet, and power.

### XTP Technologies

**SpeedSwitch™ Technology**

SPEED SWITCH

SpeedSwitch Technology provides exceptional switching speed for HDCP-encrypted content.

**SD Pro processing**

SD PRO PROCESSING

SD Pro processing provides deinterlacing of standard definition video to provide compatibility with HDMI and DVI-equipped displays, without the need for additional scalers.

**EDID Minder®**

EDID MINDER

EDID Minder automatically manages EDID communication between connected devices, ensuring that all sources power up properly and reliably output content for display.

**Key Minder®**

KEY MINDER

Key Minder continuously verifies HDCP compliance for quick, reliable switching. It authenticates and maintains continuous HDCP encryption between input and output devices to ensure quick and reliable switching in professional AV environments, while enabling simultaneous distribution of a single source signal to one or more displays.

Learn more about Extron XTP Systems at **www.extron.com/xtp**



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# DIGITAL VIDEO SYSTEMS

## XTP CrossPoint 1600 Series

### Modular Digital Matrix Switchers from 4x4 to 16x16 with SpeedSwitch™ Technology

The Extron XTP CrossPoint® 1600 provides flexible, reliable digital and analog video switching and distribution between local and remote endpoints. This modular matrix switcher is configurable from 4x4 up to 16x16 using a wide variety of available input and output boards. It sends high-resolution video, audio, RS-232, Ethernet, and power up to 330 feet (100 m) over a single CAT 5-type cable to remote XTP transmitters and receivers. The XTP CrossPoint 1600 also supports direct HDMI, DVI, VGA, video, and audio connections to local sources and displays. XTP Systems deliver robust signal routing and reliability with ultra-fast digital video switching and advanced system monitoring.

#### FEATURES

- Available in I/O sizes from 4x4 to 16x16
- 15.2 Gbps data-rate digital backplane
- Compatible with all XTP integrated system products
- Fully digital signal routing
- Wide selection of input and output boards
- RS-232 insertion from the Ethernet control port
- Remote power to XTP transmitters and receivers
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- SD Pro processing provides deinterlacing of standard definition video
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Automatic color bit depth management
- Interface Format Correction
- Modular, field-upgradeable and hot-swappable design
- Audio breakaway
- Ethernet extension
- HDCP authentication and signal presence confirmation via RS-232 or Ethernet
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Ethernet monitoring and control
- Optional redundant power supply

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CrossPoint 1600 Frame** | 5U, 8-slot Frame | Call |
| **XTP CrossPoint 1600 Frame w/RPS** | 5U, 8-slot Frame w/redundant power | Call |

## XTP CrossPoint 3200 Series

### Modular Digital Matrix Switchers from 4x4 to 32x32 with SpeedSwitch™ Technology

The Extron XTP CrossPoint® 3200 provides flexible, reliable digital and analog video switching and distribution between local and remote endpoints. This modular matrix switcher is configurable from 4x4 up to 32x32 using a wide variety of available input and output boards. It sends high-resolution video, audio, RS-232, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable to remote XTP transmitters and receivers. The XTP CrossPoint 3200 also supports direct HDMI, DVI, VGA, video, and audio connections to local sources and displays. XTP Systems deliver robust signal routing and reliability with ultra-fast digital video switching and advanced system monitoring.

#### FEATURES

- Available in I/O sizes from 4x4 to 32x32
- 15.2 Gbps data-rate digital backplane
- Compatible with all XTP integrated system products
- Fully digital signal routing
- Wide selection of input and output boards
- RS-232 insertion from the Ethernet control port
- Remote power to XTP transmitters and receivers
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- SD Pro processing provides deinterlacing of standard definition video
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Automatic color bit depth management
- Interface Format Correction
- Modular, field-upgradeable and hot-swappable design
- Audio breakaway
- Ethernet extension
- HDCP authentication and signal presence confirmation via RS-232 or Ethernet
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Ethernet monitoring and control
- Redundant power supply

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CrossPoint 3200 Frame** | 10U, 16-slot Frame | Call |



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# DIGITAL VIDEO SYSTEMS

## XTP CP I/O Boards

### XTP Transmitter and Receiver Boards with RS-232 and IR Insertion

The Extron XTP CP Input and Output Boards enable long distance transmission of AV signals between the XTP CrossPoint® matrix switcher and remote XTP transmitters and receivers. They can send video, audio, control, Ethernet, and power up to 330 feet (100 m) over a single CAT 5-type cable. The XTP CP boards are HDCP compliant, and support 1080p/60 Deep Color and 1920x1200 signals. Audio signals can be routed independently, including embedded HDMI audio, with one model also providing simultaneous multi-channel audio downmixing to two-channel PCM stereo audio for separate distribution. To streamline integration, the boards enable Ethernet extension and bidirectional RS-232 and IR insertion for LAN access and AV device control at remote endpoints.

FEATURES

- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with all XTP integrated system products
- Bidirectional RS-232 and IR insertion for AV device control
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power to XTP transmitters and receivers

XTP CP 4i

XTP CP 4i DMA

XTP CP 4o

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CP 4i** | Four Input, XTP | 70-940-01 |
| **XTP CP 4i DMA** | Four Input, XTP - Downmixing Audio | 70-940-02 |
| **XTP CP 4o** | Four Output, XTP | 70-943-01 |

## XTP CP HDMI I/O Boards

### HDMI Input and Output Boards with Analog Stereo Audio

The Extron XTP CP HDMI Input and Output Boards support HDMI and separate analog stereo audio signals. They provide the capability to connect local HDMI sources and output devices to XTP Systems. The XTP CP HDMI boards are HDCP-compliant, and support 1080p/60 Deep Color and 1920x1200 signals. Audio signals can be routed independently, including embedded HDMI audio, with one model also providing simultaneous multi-channel audio downmixing to two-channel PCM stereo audio for separate distribution.

FEATURES

- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with all XTP integrated system products
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Local analog stereo audio inputs and outputs
- Output volume control
- Automatic cable equalization
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on HDMI outputs for external peripheral devices

XTP CP 4i HDMI

XTP CP 4i HDMI DMA

XTP CP 4o HDMI

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CP 4i HDMI** | Four Input, HDMI with Stereo Audio | 70-685-11 |
| **XTP CP 4i HDMI DMA** | Four Input, HDMI - Downmixing Audio | 70-685-12 |
| **XTP CP 4o HDMI** | Four Output, HDMI with Stereo Audio | 70-687-11 |



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# DIGITAL VIDEO SYSTEMS

## XTP CP DVI Pro I/O Boards

### HDCP-Compliant DVI Input and Output Boards with Analog Stereo Audio

XTP CP 4i DVI Pro

XTP CP 4o DVI Pro

The Extron XTP CP DVI Pro Input and Output Boards support DVI and separate analog stereo audio signals. They provide the capability to connect local DVI sources and output devices to XTP Systems. The boards are HDCP compliant, and support 1080p/60 Deep Color and 1920x1200 signals. Audio signals can be routed independently.

#### FEATURES

- Supports 1080p/60 Deep Color and 1920x1200 signals
- Compatible with all XTP integrated system products
- HDCP compliant
- SpeedSwitch™ Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Automatic color bit depth management
- Interface Format Correction
- Local analog stereo audio inputs and outputs
- Output volume control
- Automatic cable equalization
- Automatic output reclocking
- Provides +5 VDC, 250 mA power on DVI outputs for external peripheral devices

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CP 4i DVI Pro** | Four Input, DVI with Stereo Audio | 70-684-11 |
| **XTP CP 4o DVI Pro** | Four Output, DVI with Stereo Audio | 70-686-11 |

## XTP CP 4i VGA Board

### Universal Input Board with Analog Stereo Audio

The XTP CP 4i VGA Input Board features universal video inputs that automatically detect incoming RGBHV, HD component video, S-video, and composite video signals. It provides the capability to connect a variety of local analog video sources to XTP Systems. The board digitizes all incoming formats, and applies SD Pro processing to deinterlace 480i and 576i video signals for reliable display on a variety of output devices. It also features analog stereo audio inputs for independent routing of audio signals.

#### FEATURES

- Accepts RGBHV, HD component video, S-video, and composite video
- Supports 1920x1200 and 1080p/60 signals
- Auto input format detection
- Analog-to-digital signal conversion
- SD Pro processing provides deinterlacing of standard definition video
- Compatible with all XTP CP output boards
- EDID Minder® automatically manages EDID communication between connected devices
- Local analog stereo audio inputs

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CP 4i VGA** | Four Input, Universal VGA - Stereo Audio | 70-941-01 |

## XTP CP 4o SA Board

### Analog Stereo Audio Output Board

The XTP CP 4o SA Output Board provides four analog stereo audio outputs for local connectivity to XTP Systems. It provides balanced or unbalanced analog stereo audio output, and can be used in audio breakaway applications. For added flexibility, the board includes volume adjustment and muting for each output.

#### FEATURES

- Balanced or unbalanced audio outputs
- Audio output volume adjustment and muting
- Compatible with all XTP CP input boards

| Model | Version Description | Part Number |
|---|---|---|
| **XTP CP 4o SA** | Four Output, Analog Stereo Audio | 70-944-01 |



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# DIGITAL VIDEO SYSTEMS

## XTP T HDMI

### XTP Transmitter for HDMI

The Extron XTP T HDMI is an XTP transmitter that sends video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable. It is HDCP compliant, and supports 1080p/60 Deep Color and 1920x1200 signals. The transmitter also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP T HDMI transmitter works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

#### FEATURES

- Transmits video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Bidirectional RS-232 and IR insertion for AV device control
- HDMI loop-through with selectable audio control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power capability
- Supports multiple embedded audio formats
- Selectable analog stereo audio input embedding

| Model | Version Description | Part Number |
|---|---|---|
| **XTP T HDMI** | XTP HDMI Transmitter | 60-1043-12 |

## XTP R HDMI

### XTP Receiver for HDMI

The Extron XTP R HDMI is an XTP receiver that accepts video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable. The receiver features HDMI audio de-embedding with digital S/PDIF or analog stereo audio outputs. It also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP R HDMI receiver works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

#### FEATURES

- Receives video with embedded audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Bidirectional RS-232 and IR insertion for AV device control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant

| Model | Version Description | Part Number |
|---|---|---|
| **XTP R HDMI** | XTP HDMI Receiver | 60-1043-13 |

## XTP SR HDMI

### XTP Scaling Receiver

The Extron XTP SR HDMI is an XTP receiver that scales HDMI, DVI, RGB, HD component video, and standard definition video to the optimal output resolution for the display. It accepts video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable. The receiver features HDMI audio de-embedding with digital S/PDIF or analog stereo audio outputs. It also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP SR HDMI scaling receiver works with XTP Systems for signal distribution and long-distance transmission to remote endpoints.

#### FEATURES

- Receives video with embedded audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable
- Scales HDMI, DVI, RGB, HD component video, and standard definition video received from XTP devices
- Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60
- Bidirectional RS-232 and IR insertion for AV device control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, HD lossless audio formats, and CEC
- HDCP compliant
- Aspect ratio control
- Internal test patterns for calibration and setup

| Model | Version Description | Part Number |
|---|---|---|
| **XTP SR HDMI** | XTP Scaling Receiver | 60-1199-01 |



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# DIGITAL VIDEO SYSTEMS

## XTP T USW 103

### Three Input XTP Switcher with Integrated XTP Transmitter

The XTP T USW 103 is a three-input switcher for sending HDMI or RGBHV video, audio, control, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable. It is HDCP compliant, and supports 1080p/60 Deep Color and 1920x1200 signals. It digitizes incoming analog video for reliable display on a variety of output devices. The transmitter also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP T USW 103 transmitter works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

#### FEATURES

- Transmits HDMI or digitized analog video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable
- Two HDMI inputs and one VGA input
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Auto-input switching
- Digital conversion of analog video formats
- Bidirectional RS-232 and IR insertion for AV device control
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power capability
- Supports multiple embedded audio formats
- Selectable analog stereo audio input embedding
- Audio input gain and attenuation
- Supports DDC transmission
- LED indicators for signal presence, HDCP, and power
- RJ-45 signal and link status LED indicator for XTP port
- Compatible with all XTP integrated system products

| Model | Version Description | Part Number |
|---|---|---|
| **XTP T USW 103** | Three Input XTP Transmitter Switcher | 60-1198-01 |

## XTP T VGA

### Universal XTP Transmitter for VGA

The Extron XTP T VGA is a universal XTP transmitter that sends multi-format analog video, audio, control, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable. It digitizes all incoming analog formats and applies SD Pro processing to deinterlace 480i and 576i video signals for reliable display on a variety of output devices. To simplify integration, the transmitter features VGA loop-through for source monitoring. It also allows Ethernet extension and insertion of bidirectional RS-232 and IR for LAN access and AV device control at remote locations. The XTP T VGA transmitter works with XTP Systems for signal distribution and long-distance transmission to remote endpoints.

#### FEATURES

- Transmits digitized analog video, audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable
- Supports 1080p/60 and 1920x1200 signals
- Supports RGB, HD component video, S-video, and composite video signals
- SD Pro processing provides deinterlacing of standard definition video
- Digital conversion of analog video formats
- Auto input format detection
- Universal 15-pin HD input loop-through
- Bidirectional RS-232 and IR insertion for AV device control
- EDID Minder® automatically manages EDID communication between connected devices
- Ethernet extension
- Remote power capability
- Selectable analog stereo audio input embedding
- Audio input gain and attenuation
- Supports DDC transmission
- Comprehensive, LED indicators for signal format, presence, and power
- RJ-45 signal and link status LED indicator for XTP port
- Compatible with all XTP integrated system products

| Model | Version Description | Part Number |
|---|---|---|
| **XTP T VGA** | Universal XTP VGA Transmitter | 60-1231-12 |



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## DIGITAL VIDEO SYSTEMS

# XTP T UWP 202

### Two Input XTP Transmitter - Decora® Wallplate

The XTP T UWP 202 is a two-input transmitter for sending HDMI or RGBHV video, audio, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable. It digitizes incoming analog video for reliable display on a variety of output devices. The transmitter is HDCP compliant, and supports 1080p/60 Deep Color and 1920x1200 signals. It also allows Ethernet extension for LAN access. The XTP T UWP 202 transmitter works with XTP Systems for signal distribution and long-distance transmission between remote endpoints.

#### FEATURES

- Transmits HDMI or digitized analog video, audio, and Ethernet up to 330 feet (100 m) over a single CAT 5-type cable
- HDMI and VGA inputs
- Supports 1080p/60 Deep Color and 1920x1200 signals
- Auto-input switching
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Remote power capability
- Supports multiple embedded audio formats
- RS-232 control
- Selectable analog stereo audio input embedding
- Audio input gain and attenuation
- Supports DDC transmission
- LED indicators for signal presence, HDCP, and power
- RJ-45 signal and link status LED indicator for XTP port
- Compatible with all XTP integrated system products

| Model | Version Description | Part Number |
|---|---|---|
| **XTP T UWP 202** | Two Input Decora XTP Transmitter - White..... | 60-1216-13 |
| **XTP T UWP 202** | Two Input Decora XTP Transmitter - Black..... | 60-1216-12 |



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# DIGITAL VIDEO SYSTEMS

## XTP PI 100

### XTP Power Injector

The Extron XTP PI 100 is a single port power injector that provides power to a remote XTP transmitter or receiver, eliminating the need for a local power supply. Designed specifically for the high data rates of XTP Systems, signal quality and transmission distances are unaffected when using the power injector. It can be installed anywhere within the XTP signal path, providing design flexibility for remote devices with limited space. The unique enclosure of the power injector enables it to be installed in small spaces, and the included Extron ZipClip™ 200 mounting kit allows the XTP PI 100 to be attached to a broad range of surfaces for further integration versatility.

FEATURES

- Supplies power to one XTP extender
- Designed specifically for the high-performance specification of XTP Systems
- Patent pending ZipClip™ 200 mounting kit included
  - Mounts securely on a variety of surfaces
  - Wire tie slots for stain relief and cable dressing
  - Quick release tab for easy access
- Real-time status LEDs for troubleshooting and monitoring
- UL/c-UL listed and CE compliant
- 1U, quarter rack width enclosure

| Model | Version Description | Part Number |
|---|---|---|
| **XTP PI 100** | XTP Power Injector | 60-1233-01 |

## XTP PI 400

### Four Port XTP Power Injector

The Extron XTP PI 400 is a four port power injector that provides power for up to four remote XTP transmitters or receivers, eliminating the need for local power supplies. Designed specifically for the high data rates of XTP Systems, signal quality and transmission distances are unaffected when using the power injector. It can be installed anywhere within the XTP signal path, providing design flexibility for remote devices with limited space. To ensure quick and dependable installation, the 1U, half rack width enclosure can be securely mounted using Extron rack shelves.

FEATURES

- Supplies power for up to four remote XTP extenders
- Real-time status LEDs for troubleshooting and monitoring
- UL/c-UL listed and CE compliant
- 1U, half rack width enclosure
- Rack-mountable 1U, half rack width enclosure

| Model | Version Description | Part Number |
|---|---|---|
| **XTP PI 400** | Four Port XTP Power Injector | 60-1298-01 |

# TOUCHLINK™ TOUCHPANELS

## TLP 710CV

### 7” Cable Cubby® TouchLink™ Touchpanel

The Extron TLP 710CV is a configurable 7” Cable Cubby® TouchLink Touchpanel that combines AV system control with the convenience of an Extron Cable Cubby enclosure. It features a flip-up, full-color, high-resolution touchscreen in an elegant, metal enclosure that can be mounted securely into a tabletop, lectern, or other flat surface. An integrated MTP twisted pair receiver accepts S-video or composite video and audio input signals over CAT 5-type cable. Power over Ethernet - PoE allows the touchpanel to receive power and control over an additional CAT 5-type cable, eliminating the need for a local power supply. The touchpanel enables integrators to deploy furniture-mountable, fully configurable touchscreen control, with cable management and easy access to AV connectivity and power.

FEATURES

- 7” color touchscreen with 800x480 resolution and 18-bit color depth
- Full-motion video display for preview and monitoring using Extron twisted pair technology
- Power over Ethernet allows the touchpanel to receive power and control over a single CAT 5-type cable, eliminating the need for a local power supply - PoE injector included
- Built-in speaker provides audio for video preview and audible feedback from button presses
- Cable Cubby design offers easy access to AV, data, and power connections

| Model | Version Description | Part Number |
|---|---|---|
| **TLP 710CV** | Black - with US AC Module | 60-1175-020A |
| **TLP 710CV** | Black - AC Module Not Included | 60-1175-0200 |
| **TLP 710CV** | Brushed Aluminum-AC Module Not Included | 60-1175-0210 |



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# MEDIALINK® AND TOUCHLINK™ FOR IPAD

## MediaLink® for iPad

### iPad Control App for MLC 104 IP Plus and MLC 226 IP Controllers

Extron's MediaLink for iPad is an AV control system app designed for the Apple iPad. MediaLink for iPad provides users with an additional point of control for up to twelve rooms with an installed Ethernet-enabled MediaLink controller. With this app, presenters can wirelessly control the AV system using a Wi-Fi network, allowing them the freedom to move from room to room. Each button press is tracked in real time between the app and the controller, so that both stay in sync. MediaLink for iPad is available in the Apple iTunes App store.

FEATURES

- Provides an additional point of control for Ethernet-enabled MediaLink controllers
- Supports MLC 104 IP Plus and MLC 226 IP MediaLink controllers that are configured using Global Configurator
- Connection manager allows presenters to control different rooms
- Button tracking allows iPad and controller to stay in sync
- Provides real-time status and remote control of multiple rooms for troubleshooting and management
- Wireless control using a Wi-Fi network allows users to move freely from room to room
- Familiar user interface looks just like the MediaLink controller on the wall

| Model | Version Description |
|---|---|
| **MediaLink for iPad** | iPad App for MLC 104 IP Plus,MLC 226 IP |

## TouchLink™ for iPad

### iPad Control App for TouchLink™ Touchpanels

Extron's TouchLink™ for iPad is an easy-to-use AV control system app designed for the Apple iPad. It provides users with an additional point of control for rooms equipped with a TouchLink touchpanel. The app is compatible with projects created using Global Configurator 3.5 and Global Configurator Professional and is enabled with a single mouse click. With this app, presenters can wirelessly control their AV system using a Wi-Fi network, allowing them the freedom to move from room to room. Each button press is tracked in real time between the app and the touchpanel, so that both stay in sync. With TouchLink for iPad, no additional GUI configuration is required, as it emulates the interface of the existing touchpanel. TouchLink for iPad is available in the Apple iTunes App Store.

FEATURES

- Provides an additional point of control for TouchLink touchpanels
- Connection manager allows presenters to control different rooms
- Button tracking allows iPad and touchpanel to stay in sync
- Provides real-time status and remote control of multiple rooms for troubleshooting and management
- Wireless control using a Wi-Fi network allows the user to move freely from room to room
- Familiar user interface duplicates the installed TouchLink touchpanel GUI
- Easily enable within Global Configurator 3.5 and Global Configurator Professional with a single mouse click

| Model | Version Description |
|---|---|
| **TouchLink for iPad** | iPad App for TouchLink Touchpanels |



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# CONFIGURATION SOFTWARE

## Global Configurator Professional

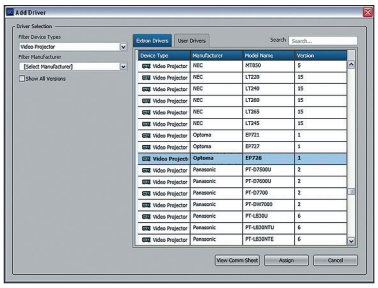
### Advanced Configuration Software for AV Control Systems

Global Configurator Professional is Extron's next generation configuration software for larger, more sophisticated TouchLink™-based configurable control systems. It offers an integrated environment for defining advanced AV control system functionality from an easy-to-use graphical user interface. Powerful features, such as controller groups and conditional logic, provide greater flexibility for more elaborate control system designs. GC Pro is ideal for any TouchLink-based control system requiring enhanced functionality and advanced configuration.

#### FEATURES

- Supports larger, more sophisticated TouchLink-based control systems
- Conditional logic with use of local variables
- Controller groups
- Virtual TouchLink support
- Controller macros
- Controller templates
- Enhanced user interface
- Enhanced button grouping
- Extensive library of thousands of certified, ready-to-use Ethernet, serial, and IR drivers
- Driver Configurator support
- Device driver subscription service
- String support within drivers
- Serial driver replacement maintains configuration settings when a serial driver is replaced
- Checks for missing drivers
- GlobalViewer system designer
- GlobalViewer Help button
- Project file import and export
- Scheduling and monitoring wizards
- Multiple action scheduling
- Event reporting
- Intelligent upload manager
- Aggregate event triggers
- Enhanced labeling options
- Three different methods for sorting and displaying control processors in a system
- Project AutoSave

Global Configurator Professional



Driver Configurator Support - Allows creation of user defined serial and Ethernet drivers for devices that do not already have drivers available.

Global Configurator Professional enables TouchLink for iPad

### Enhanced Functionality With Use of Conditional Logic

Conditional logic allows advanced functionality by making "if" and "else" statements available. With the help of conditional logic, one can easily set up operations that are dependent upon occurrence and non-occurrence of certain events. Conditional logic with local variables also allows examination of conditions within the configured button actions before performing a task. This ultimately helps in streamlining project creation by minimizing the need for monitors and schedules.

### Combining Multiple Controllers for Larger Control Systems

With GC Pro, the controller groups feature allows control processors to be grouped together to work as one big controller. This feature is required to serve the needs of advanced systems that require more control ports than any single control processor possesses. Grouping the control processors will also reduce the need for long RS-232 cable runs as the group can span several rooms instead of being limited to a single room. Existing control systems benefit with this added feature as it affords an opportunity for easy expansion.

### Easy Duplication of Control System Configurations

The controller templates feature helps create a baseline configuration that can be reused to create identical control systems. In essence, this feature creates an abstract representation of a controller. When a controller is linked to a template, it becomes an exact replica of that abstract. Any changes made to a template are automatically duplicated to all the controllers linked to it.

### Create Additional Point of Control for TouchLink

Global Configurator Professional enables Virtual TouchLink, which creates an additional point of control for rooms with installed TouchLink touchpanels. This can be established in one of two ways: TouchLink for Web is accessed from any Web browser that supports Microsoft Silverlight, and TouchLink for iPad is an AV control system app designed for the Apple iPad. Both the Web and iPad versions support button tracking, which tracks each button press to the touchpanel, allowing both virtual and installed touchpanels to stay in sync. For TouchLink for iPad, presenters can wirelessly control the AV system using a Wi-Fi network, allowing them the freedom to move throughout a room.

| Model | Version Description | Part Number |
|---|---|---|
| **Global Configurator Professional** | Configuration Software | 79-544-01 |

Global Configurator Professional is available to qualified AV professionals.
Call your Extron Customer Support Representative for details.



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# MOUNTING HARDWARE

## RFF Series

### Basic Rack False Faceplate Kits

The Extron RFF Series Basic Rack False Faceplate Kits are designed for use with Extron RSF, RSB, and RSU Series 1U Rack Shelf Kits. RFF Series Faceplates are available in two versions: Low Profile, for use with rack-mountable 1", quarter-rack and half-rack width enclosures; and 1U version, for use with rack-mountable 1U, eighth-rack, quarter-rack, and half-rack width enclosures. Both versions provide additional thermal management and complement rack aesthetics. Available in a gray powder coat finish.

#### FEATURES

- False faceplates for use with Extron RSF, RSB, and RSU Series 1U Rack Shelf Kits
- Available in 1U and Low Profile versions
- Low Profile faceplates are compatible with Extron products with 1" enclosures
- Available in eighth, quarter, or half-rack widths, depending on version

RFF 052

RFF 054 shown installed on DTP 301 HDMI Tx

| Model | Version Description | Part Number |
|---|---|---|
| **RFF 102** | Half Rack Width for 1U Enclosures | 70-339-01 |
| **RFF 104** | Quarter Rack Width for 1U Enclosures | 70-338-01 |
| **RFF 108** | Eighth Rack Width for 1U Enclosures | 70-337-01 |
| **RFF 052** | Half Rack Width for 1" Enclosures | 70-972-01 |
| **RFF 054** | Quarter Rack Width for 1" Enclosures | 70-973-01 |

## Half Rack Shelf System

### Half-Rack Width Rack Shelf and Accessories

The Extron Half Rack Shelf System of rack shelves and related accessories is designed for applications utilizing one-half rack width and smaller products. The compact, 1U half-rack width size allows the mounting of half-, quarter-, and eighth-rack products in space-constrained furniture such as lecterns and cabinets that are not wide enough to support the mounting of full width, 19" rack shelves or electronics. The Half-Rack System is comprised of the HRB 109 Basic Rack Shelf; the HRU 109 Universal Rack Shelf Kit, which includes eighth-rack and quarter-rack false faceplates; and HRP 100 Blank Panel. The HRP 104 AAP has openings for up to four single-space AAP Architectural Adapter Plates and is available in a black powder coat finish. Most Half-Rack System products are finished in a durable gray powder coat finish to match other Extron products.

#### FEATURES

- Compact, 1U half-rack width size fits narrow lecterns and cabinets
- Holds one half-rack, two quarter-rack, or four eighth-rack width products
- Includes mounting holes for 3", 6", and 9.5" deep Extron products
- Available AAP – Architectural Adapter Plate – mounting frame
- Available in a gray powder coat finish
- Matching blank filler plate also available

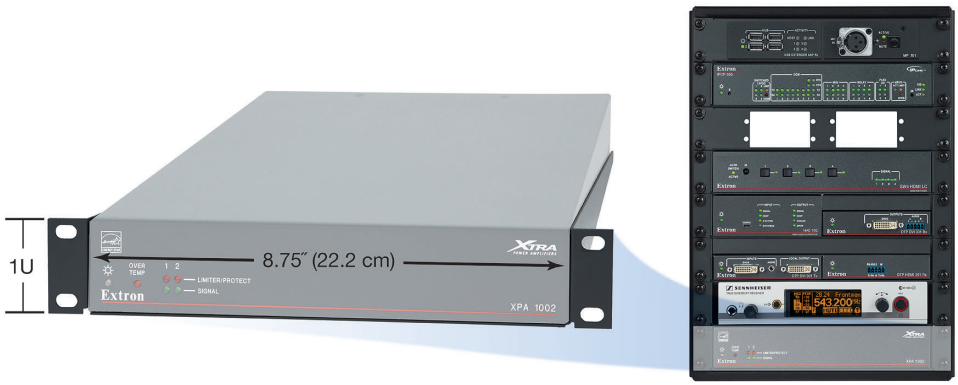
HRB 109

HRU 109

HRP 100

HRP 104 AAP

| Model | Version Description | Part Number |
|---|---|---|
| **HRB 109** | 1U Basic Half Rack Shelf, gray | 60-1251-10 |
| **HRU 109** | 1U Universal Half Rack Shelf Kit, gray | 60-1251-20 |
| **HRP 100** | 1U Half Rack Blank Panel, gray | 60-1251-01 |
| **HRP 104 AAP** | 1U Half Rack 4 AAP Mounting Panel, black | 60-1251-30 |



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# ARCHITECTURAL SOLUTIONS

## Retractor

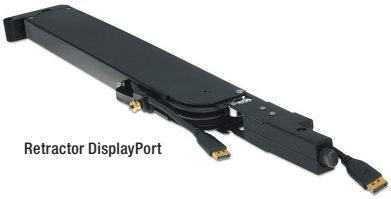
### Cable Retraction System for Cable Cubby® Enclosures

The Extron Retractor is a unique, patent-pending cable retraction and management system designed to work with new or previously installed Cable Cubby® enclosures that provides discreet, convenient access to AV cables. The Retractor is available in versions to support most AV and data signal types including VGA, Network, PC Audio, USB, DVI, DisplayPort, or HDMI. The cables extend up to three feet (90 cm) and are held securely in place at the desired length.

#### FEATURES

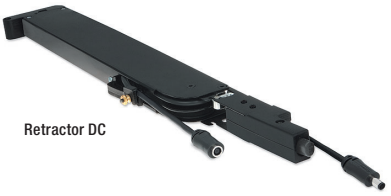
- Patent-pending cable retraction system maintains signal integrity
- Designed for easy integration with Cable Cubby® and TLP TouchLink™ Cable Cubby enclosures
- Mount up to 3 Retractor modules on each side of the enclosure, 6 total
- Cables extend up to three feet (90 cm)
- Holds cable securely in place at a user-defined length
- Simple push-button release retracts cable into Cable Cubby enclosure after use
- Flexible installation options
- Available in a variety of commonly used AV and data connectors
- Retractor DC extends DC power for many Dell, HP, and Compaq PCs
- Retractor DisplayPort features a DisplayPort male to male cable
- Retractor VGA SM features the Extron VGA "Show Me" Control Cable for remote input selection with Extron VGA switchers
- Optional horizontal mounting bracket supports up to three Retractor modules

| Model | Version Description | Part Number |
|---|---|---|
| **Retractor DisplayPort** | DisplayPort Male to Male | 70-983-07 |
| **Retractor DC** | DC Power Extension: Dell, HP, other PCs | 70-983-10 |
| **Retractor VGA SM** | VGA "Show Me" Retractor | 70-983-12 |



Retractor DisplayPort

Retractor VGA SM



Retractor DC

## Retractor XL

### Extended Length Cable Retraction System for Cable Cubby® Enclosures

The Extron Retractor XL is a unique, patent-pending cable retraction and management system designed to work with new or previously installed Cable Cubby® enclosures that provides discreet, convenient access to AV cables. The Retractor XL is available in versions to support most AV and data signal types including VGA, Network, PC Audio, USB, DisplayPort, or HDMI. The cables extend up to five feet (152 cm) and are held securely in place at the desired length. The Extron Retractor Series is also available for applications where cable extension of 3 feet (90 cm) is appropriate.

#### FEATURES

- Patent-pending cable retraction system maintains signal integrity
- Designed for easy integration with Cable Cubby® and TLP TouchLink™ Cable Cubby enclosures
- Mount up to 3 Retractor modules on each side of the enclosure, 6 total
- Cables extend up to five feet (152 cm)
- Holds cable securely in place at a user-defined length
- Simple push-button release retracts cable into Cable Cubby enclosure after use
- Flexible installation options
- Available in a variety of commonly used AV and data connectors
- Optional horizontal mounting bracket supports up to three Retractor modules
- Optional filler modules available

| Model | Version Description | Part Number |
|---|---|---|
| **Retractor XL VGA** | VGA Male to Male | 70-1001-01 |
| **Retractor XL PC Audio** | 3.5 mm Stereo Audio M to M | 70-1001-02 |
| **Retractor XL Network** | Network CAT5e | 70-1001-03 |
| **Retractor XL HDMI** | HDMI Male to Male | 70-1001-04 |
| **Retractor XL USB** | USB A Male to Male | 70-1001-05 |
| **Retractor XL DisplayPort** | DisplayPort Male to Male | 70-1001-07 |
| **Retractor XL DC** | Extension for Dell, HP, and Similar PCs | 70-1001-10 |
| **Retractor XL VGA-A** | VGA M-M and 3.5 mm Stereo M-M | 70-1001-11 |
| **Retractor XL VGA SM** | VGA "Show Me" Retractor | 70-1001-12 |

Retractor XL HDMI



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# ARCHITECTURAL SOLUTIONS

## WPD 140 A

### Pass-Through Wallplate - Decora® for VGA, Stereo Audio, and Control

The Extron WPD 140 A is a pass-through, Decora®-style wallplate for VGA, stereo audio, and control. It features a pass-through VGA Female to VGA Female connector on 6" pigtail along with a 3.5 mm stereo mini jack to captive screw adapter, providing a simple and elegant integration solution. The audio port can be covered when not in use. A convenient pass-through port for IR or RS-232 signals provides for control of DVD players, displays, switchers or other RS-232 or IR controllable devices. The WPD 140 A includes a matching white single-gang Decora-style wallplate and audio port cover, and fits a standard US one-gang size junction box.

FEATURES

- VGA Female connector to VGA Female on 6" pigtail
- Includes a matching white single-gang Decora®-style wallplate
- Computer audio: 3.5 mm stereo mini jack to captive
- Signals passed through unprocessed
- One-gang Decora®-style module
- IR or RS-232 pass-through on captive screw for easy termination

| Model | Version Description | Part Number |
|---|---|---|
| **WPD 140 A** | VGA w/Audio and Control | 70-766-23 |

## WPC 210 A EU

### Wallplate with Outputs for HDMI and PC Audio - European Junction Boxes

The Extron WPC 210 A EU wallplate is specifically designed for a standard European single junction box. It features an HDMI female to HDMI female connector on 6" (15 cm) pigtail and a 3.5 mm stereo audio with pass-through output on captive screw connectors for ease of integration in standard, 40 mm deep junction boxes providing a simple integration solution. The audio port can be covered when not in use. The Extron WPC 210 A EU wallplate is made of metal and is available in RAL9010 white.

FEATURES

- Video: HDMI female to HDMI female connector on 6" (15 cm) pigtail
- PC audio: 3.5 mm stereo mini jack to captive screw connectors
- For use with European single junction boxes
- Available in RAL9010 white
- Faceplate dimensions: 3.1" x 3.1" x 0.1" (8.1 x 8.1 x 0.2 cm)

| Model | Version Description | Part Number |
|---|---|---|
| **WPC 210 A EU** | EU gang - RAL9010 White | 70-990-05 |

## WPC 210 A MK

### Wallplate with Outputs for HDMI and PC Audio - MK Junction Boxes

The Extron WPC 210 A MK wallplate is specifically designed for a MK Electric type British standard one-gang wall box. It features an HDMI female to HDMI female connector on 6" (15 cm) pigtail and a 3.5 mm stereo audio with pass-through output on captive screw connectors for ease of integration in standard, 40 mm deep junction boxes, providing a simple integration solution. The audio port can be covered when not in use. The Extron WPC 210 A MK wallplate is made of metal and is available in white.

FEATURES

- Video: HDMI female to HDMI female connector on 6" (15 cm) pigtail
- PC audio: 3.5 mm stereo mini jack to captive screw connectors
- For use with MK Electric type British standard wall boxes
- Available in white
- Faceplate dimensions: 3.35" x 3.35" x 0.1" (8.5 x 8.5 x 0.25 cm)

| Model | Version Description | Part Number |
|---|---|---|
| **WPC 210 A MK** | MK gang - White | 70-990-03 |



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# COLLABORATIVE AV SYSTEMS

## VGA SM

### VGA "Show Me" Control Cable

The Extron VGA SM "Show Me" Control Cable is a male-to-male VGA cable that provides remote input connection and selection for Extron VSW 2VGA A and SW VGA Ars switchers. The cable features male 15-pin HD connectors and a 3.5 mm stereo audio jack for optional stereo audio. Operation is simple and convenient: Connect the VGA "Show Me" cable to your laptop's VGA output, and press the "Share" button to share the content of your desktop on the main presentation display. The VGA SM "Show Me" Control Cable is available in two versions that are ideal for use in collaborative learning and similar applications: the VGA SM/6, a six-foot (1.8 m) cable; and the Retractor VGA SM and Retractor XL VGA SM for Extron Cable Cubby® and TLP TouchLink™ Cable Cubby enclosures.

FEATURES

- Provides remote input connection and selection for Extron VSW 2VGA A and SW VGA Ars switchers
- "Share" button switches connected source to the main presentation display
- Works with virtually any new or existing furniture system
- Choice of six-foot (1.8 m) cable or Retractor model
- Certified for use with Cable Cubby® and TLP TouchLink™ Cable Cubby enclosures

| Model | Version Description | Part Number |
|---|---|---|
| **VGA SM/6** | VGA "Show Me" Cable, 6' (1.8m) | 26-676-06 |
| **Retractor VGA SM** | VGA "Show Me" Retractor | 70-983-12 |
| **Retractor XL VGA SM** | VGA "Show Me" Retractor | 70-1001-12 |

# FIBER OPTICS

## DDX 102

### Dual Link DVI Fiber Optic Extender

The Extron DDX 102 Fiber Optic Extender is an extremely compact transmitter and receiver set that provides an effective, economical solution for extending dual link DVI-D signals long distances over fiber optic cabling. It uses all digital technology to deliver perfect pixel-for-pixel transmission of DVI computer-video images up to 2560x1600, including HDTV 1080p/60. The transmitter and receiver work together to send dual link DVI signals up to 500 meters (1,640 feet) over two multimode cables. Designed for AV systems, the DDX 102 includes integrator-friendly features such as EDID Minder® and direct device connection.

FEATURES

- Transmits dual link DVI-D signals over two fiber optic cables
- Sends 2560x1600 and HDTV 1080p/60 signals up to 500 meters (1,640 feet) over multimode fiber optic cabling
- EDID Minder® automatically manages EDID communication between connected devices
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Pre-terminated fiber optic cable assemblies available from Extron in various lengths from one meter (3.3 feet) to 60 meters (197 feet)

| Model | Version Description | Part Number |
|---|---|---|
| **DDX 102 Tx** | Dual Link DVI Fiber Optic Transmitter | 60-1328-12 |
| **DDX 102 Rx** | Dual Link DVI Fiber Optic Receiver | 60-1328-13 |

## 2LC OM4 MM P

Pre-terminated multimode fiber optic cables available in various lengths. Compatible with DDX 102 extenders.

| Model | Version Description | Part Number |
|---|---|---|
| **2LC OM4 MM P/1** | 1 m (3.3') | 26-671-01 |
| **2LC OM4 MM P/2** | 2 m (6.6') | 26-671-02 |
| **2LC OM4 MM P/3** | 3 m (9.8') | 26-671-03 |
| **2LC OM4 MM P/5** | 5 m (16.4') | 26-671-05 |
| **2LC OM4 MM P/10** | 10 m (32.8') | 26-671-10 |
| **2LC OM4 MM P/15** | 15 m (49.2') | 26-671-15 |
| **2LC OM4 MM P/20** | 20 m (65.6') | 26-671-20 |
| **2LC OM4 MM P/30** | 30 m (98.4') | 26-671-30 |
| **2LC OM4 MM P/40** | 40 m (131') | 26-671-40 |
| **2LC OM4 MM P/50** | 50 m (164') | 26-671-50 |
| **2LC OM4 MM P/60** | 60 m (197') | 26-671-60 |



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# FIBER OPTICS

## FOX T UWP 302

### Two Input Fiber Optic Transmitter - Decora® Wallplate

The Extron FOX T UWP 302 is a two input fiber optic transmitter for long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video and analog stereo audio signals over fiber optic cabling. Engineered for reliability and exceptional image performance, this Decora®-style wallplate uses all digital technology to provide perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. Analog signals are digitized to ensure high quality transmission to the output destination. The transmitter also provides a host of integrator-friendly features, such as EDID Minder®, Key Minder®, audio embedding with gain and attenuation control, auto-input switching, and real-time system monitoring. The FOX T UWP 302 occupies a three-gang space, and is available in multimode and singlemode models.

#### FEATURES

- Transmits HDMI or analog video and stereo audio signals very long distances over fiber optic cabling
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Digital conversion of analog video and audio input signals
- Auto-input switching
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- EDID Minder® automatically manages EDID communication between connected devices
- Audio embedding with gain, attenuation, and muting control
- LED indicators for signal presence, HDCP, and power
- Mounts in an included three-gang Decora®-style wallplate

| Model | Version Description | Part Number |
|---|---|---|
| **FOX T UWP 302 MM** | Multimode - Wallplate Transmitter Black | 60-1232-11 |
| **FOX T UWP 302 SM** | Singlemode - Wallplate Transmitter Black | 60-1232-12 |
| **FOX T UWP 302 MM** | Multimode - Wallplate Transmitter White | 60-1232-13 |
| **FOX T UWP 302 SM** | Singlemode - Wallplate Transmitter White | 60-1232-14 |

## FOX T USW 103

### Three Input Switcher with Integrated Fiber Optic Transmitter for HDMI, VGA, Audio, & RS-232

The Extron FOX T USW 103 is a three input switcher with an integrated fiber optic transmitter that provides long haul transmission of HDCP-compliant HDMI, RGBHV, or HD component video, stereo audio, and RS-232 signals over fiber optic cabling. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology to deliver perfect pixel-for-pixel transmission of images up to 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the transmitter is equipped with a host of integrator-friendly features such as EDID Minder®, Key Minder®, audio embedding, audio gain and attenuation, auto-input switching, and real-time system monitoring. These features and the compact, low profile enclosure of the FOX T USW 103 allow for discreet installation in a wide variety of applications.

#### FEATURES

- Transmits HDMI or analog video, stereo audio, and RS-232 signals very long distances over fiber optic cabling
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Digital conversion of analog video and audio input signals
- Auto-input switching
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- EDID Minder® automatically manages EDID communication between connected devices

| Model | Version Description | Part Number |
|---|---|---|
| **FOX T USW 103 MM** | Three-Input Transmitter - Multimode | 60-1229-11 |
| **FOX T USW 103 SM** | Three-Input Transmitter - Singlemode | 60-1229-12 |



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# FIBER OPTICS

## PowerCage™ FOX AEX 104

### Four Port Fiber Optic Audio Extractor

The Extron PowerCage™ FOX AEX 104 Four Port Fiber Optic Audio Extractor is a modular board designed for the Extron PowerCage 1600 enclosure that enables independent processing and routing of audio signals in a fiber optic AV system. Each port accepts signals from a FOX Series transmitter, extracts the two-channel audio signal to provide balanced or unbalanced analog stereo output, and re-transmits the original signal to a FOX Series receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the fiber optic signal at the original power level. Featuring high-speed, all digital signal transmission of pixel-perfect video, audio, and control, the PowerCage FOX AEX 104 is compatible with FOX Series HDMI, DVI Plus, DVI, VGA, VGA/YUV, and AV transmitters and receivers.

#### FEATURES

- Provides local audio outputs for up to four FOX Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- Simultaneous audio extraction ports
- Buffered input loop-throughs
- Balanced or unbalanced analog stereo audio output
- Output reclocking
- Modular, field-upgradeable, and hot-swappable board designed for the PowerCage 1600 enclosure

| Model | Version Description | Part Number |
|---|---|---|
| **PowerCage FOX AEX 104 MM** | Audio Extractor - Multimode | 70-960-01 |
| **PowerCage FOX AEX 104 SM** | Audio Extractor - Singlemode | 70-960-02 |

## FOX AEX 108

### Eight Port Fiber Optic Audio Extractor

The Extron FOX AEX 108 Eight Port Fiber Optic Audio Extractor enables independent processing and routing of audio signals in a fiber optic AV distribution system. Each port accepts signals from a FOX Series transmitter, extracts the two-channel audio signal to provide a balanced or unbalanced analog stereo output, and re-transmits the original signal to a FOX Series receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the fiber optic signal at original power levels. Featuring high-speed, all digital signal transmission of pixel-perfect video, audio, and control signals over fiber optic cabling, the FOX AEX 108 is compatible with FOX Series HDMI, DVI Plus, DVI, VGA, VGA/YUV, and AV transmitters and receivers.

#### FEATURES

- Provides local audio outputs for up to eight FOX Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- Simultaneous audio extraction ports
- Buffered input loop-throughs
- Balanced or unbalanced analog stereo audio output
- Output reclocking
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger
- Compatible with Extron FOX Series distribution amplifiers and switchers
- Compatible with Extron FOX Series HDMI, DVI Plus, DVI, VGA, VGA/YUV, and AV transmitters and receivers
- Rack-mountable 1U, half rack width metal enclosure
- Internal universal power supply

| Model | Version Description | Part Number |
|---|---|---|
| **FOX AEX 108 MM** | Multimode | 60-1227-01 |
| **FOX AEX 108 SM** | Singlemode | 60-1227-02 |



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# FIBER OPTICS

## PowerCage™ FOX SR HDMI

### Fiber Optic Scaling Receiver for HDMI, Audio, and RS-232

The Extron PowerCage™ FOX SR HDMI Fiber Optic Extender is a modular scaling receiver for the PowerCage 1600 enclosure that enables long haul transmission of HDCP-compliant HDMI video, stereo audio, and RS-232 control signals over fiber optic cabling. Engineered for reliability and exceptional high resolution performance, it uses Extron all-digital technology to distribute perfect pixel-for-pixel HDMI computer-video images up to WUXGA 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the PowerCage FOX SR HDMI also includes a host of integrator-friendly features such as Key Minder®, audio de-embedding, selectable HDMI audio pass-through, Auto Input Memory, and internal test patterns.

#### FEATURES

- Accepts fiber optic signals from a FOX Series transmitter, and provides scaled HDMI video, stereo audio, and RS-232 control signals
- High performance scaler provides selectable output resolutions up to 1920x1200, including HDTV 1080p/60
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- HDMI, DVI, RGB, and HD component video upscaling and downscaling
- Modular, field-upgradeable, and hot-swappable board designed for the PowerCage 1600 enclosure

| Model | Version Description | Part Number |
|---|---|---|
| **PowerCage FOX SR HDMI MM** | Scaling Receiver - Multimode | 70-904-21 |
| **PowerCage FOX SR HDMI SM** | Scaling Receiver - Singlemode | 70-904-22 |

## FOXBOX SR HDMI

### Fiber Optic Scaling Receiver for HDMI, Audio, and RS-232

The Extron FOXBOX SR HDMI Fiber Optic Extender is a scaling receiver for long haul transmission of HDCP-compliant HDMI, audio, and RS-232 control signals over fiber optic cabling. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology to distribute perfect pixel-for-pixel HDMI computer-video images up to WUXGA 1920x1200, including HDTV 1080p/60. Designed specifically for AV systems, the FOXBOX SR HDMI also includes a host of integrator-friendly features such as Key Minder®, audio de-embedding, Auto Input Memory, and internal test patterns. A compact, low profile enclosure allows for discreet installation behind a flat-panel display.

#### FEATURES

- Accepts fiber optic signals from FOX Series transmitters and provides scaled HDMI video, stereo audio, and RS-232 control signals
- High performance scaler provides selectable output resolutions up to 1920x1200, including HDTV 1080p/60
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance
- HDMI, DVI, RGB, and HD component video upscaling and downscaling
- HDMI audio de-embedding with analog stereo outputs
- Compatible with Extron FOX Series HDMI, DVI Plus, DVI, VGA, and VGA/YUV transmitters

| Model | Version Description | Part Number |
|---|---|---|
| **FOXBOX SR HDMI MM** | Multimode - Receiver | 60-1187-21 |
| **FOXBOX SR HDMI SM** | Singlemode - Receiver | 60-1187-22 |



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# FIBER OPTICS

## PowerCage™ FOX HDMI

### Fiber Optic Extender for HDMI, Audio, and RS-232

The PowerCage™ FOX HDMI Fiber Optic Extender is a modular board-designed transmitter and receiver set for the PowerCage 1600 enclosure that provides long haul transmission of HDCP-compliant HDMI, stereo audio, and RS-232 control signals over fiber optic cabling. Engineered for reliability and exceptional high resolution image performance, it uses Extron all digital technology to deliver perfect pixel-for-pixel transmission of HDMI computer-video images up to WUXGA 1920x1200 resolution, including HDTV 1080p/60. The PowerCage FOX HDMI also includes many integrator-friendly features such as Key Minder®, EDID Minder®, Auto Input Memory, audio embedding/de-embedding, audio gain and attenuation, internal test patterns, and real-time system monitoring.

#### FEATURES

- Extends HDMI, stereo audio, and RS-232 control signals very long distances over fiber optic cabling
- HDCP compliant
- All digital technology provides pixel-for-pixel performance with signals up to 1920x1200, including HDTV 1080p/60
- Key Minder® continuously verifies HDCP compliance
- EDID Minder® automatically manages EDID communication between connected devices
- Modular, field-upgradeable, and hot-swappable boards designed for the PowerCage 1600 enclosure
- Audio embedding with gain, attenuation, and muting control
- HDMI audio de-embedding with analog stereo outputs
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display

PowerCage FOX HDMI Transmitter

PowerCage FOX HDMI Receiver

| Model | Version Description | Part Number |
|---|---|---|
| **PowerCage FOX Tx HDMI MM** | Multimode - Transmitter | 70-889-11 |
| **PowerCage FOX Rx HDMI MM** | Multimode - Receiver | 70-889-21 |
| **PowerCage FOX Tx HDMI SM** | Singlemode - Transmitter | 70-889-12 |
| **PowerCage FOX Rx HDMI SM** | Singlemode - Receiver | 70-889-22 |

## FOX USB Extender

### Fiber Optic Extender for USB Peripherals

The Extron FOX USB Extender is a fiber optic transmitter and receiver set for long haul transmission of USB signals over fiber optic cabling. Engineered for reliability and exceptional performance, it uses Extron-exclusive all digital technology to deliver perfect transmission of USB 2.0, 1.1, and 1.0 signals with data transfer rates up to 480 Mbps. Designed specifically for AV systems, the FOX USB Extender also includes a host of integrator friendly features such as peripheral emulation, an active four-port hub that supplies 5 Volts, 500 mA per port, and real-time system monitoring. Compact, low profile enclosures allow for discreet installation.

#### FEATURES

- Extends USB peripherals very long distances over fiber optic cabling
- Supports USB 2.0, 1.1, and 1.0 standards with data transfer rates up to 480 Mbps
- Receiver features an integrated four-port hub with 5 Volts, 500 mA available on each port
- Peripheral Emulation
- Real-time status LED indicators for troubleshooting and monitoring
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger

FOX USB Extender Tx

FOX USB Extender Rx

| Model | Version Description | Part Number |
|---|---|---|
| **FOX USB Extender Tx MM** | Multimode - Transmitter | 60-1234-11 |
| **FOX USB Extender Rx MM** | Multimode - Receiver | 60-1234-21 |
| **FOX USB Extender Tx SM** | Singlemode - Transmitter | 60-1234-12 |
| **FOX USB Extender Rx SM** | Singlemode - Receiver | 60-1234-22 |



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# FIBER OPTICS

## FOX RS 104

### Four Port Fiber Optic RS-232 Inserter

The Extron FOX RS 104 is a four port fiber optic RS-232 inserter for long-haul transmission of control signals to remote devices over fiber optic cabling. Each port provides a bidirectional fiber optic connection to a FOX Series extender for the insertion and extraction of control data, while maintaining a continuous pass-through link for video and audio. Engineered for reliability and exceptional high resolution image performance, it uses Extron all-digital technology to deliver pixel-perfect HDMI, DVI, computer-video, and standard definition video. Output reclocking on the buffered fiber optic outputs ensures signal integrity, sending a fiber optic signal at its original power level.

FEATURES

- RS-232 insertion from the Ethernet port to one or more of the fiber optic outputs
- Buffered fiber optic outputs
- Output reclocking
- Ethernet monitoring and control
- Available as an 850 nm multimode model for moderate-range transmissions, and a 1310 nm singlemode model for extreme distances up to 30 km (18.75 miles)
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment

| Model | Version Description | Part Number |
|---|---|---|
| **FOX RS 104 MM** | RS-232 Inserter - Multimode | 60-1273-01 |
| **FOX RS 104 SM** | RS-232 Inseter - Singlemode | 60-1273-02 |

## FOX I/O 1616 HD-SDI

### 16x16 Multi-Rate SDI I/O Board for the FOX Matrix 14400 and FOX Matrix 320x

The Extron FOX I/O 1616 HD-SDI board is available as an option for the FOX Matrix 14400 and FOX Matrix 320x Modular Fiber Optic Matrix Switchers, and enables connection to local multi-rate SDI-equipped devices. This board offers a 16x16 configuration for switching and distribution of multi-rate SDI signals up to 2.97 Gbps, including SDI, HD-SDI, and 3G-SDI. With this board, the FOX Matrix switchers can be configured as dedicated multi-rate SDI matrix switchers, or with a combination of multi-rate SDI and fiber optic matrix switching. The FOX I/O 1616 HD-SDI board is compliant with SMPTE 259M, 292M, 424M, and ITU digital video standards.

FEATURES

- Supports multi-rate SDI signals up to 2.97 Gbps
- Multi-rate SDI I/O board for the FOX Matrix 14400 and FOX Matrix 320x
- Passes embedded audio, ancillary ID and metadata information, and SD/HD-SDTI digital video signals
- Immunity to SDI and HD-SDI pathological signal patterns
- Hot-swappable
- Individually buffered inputs and outputs
- Input equalization and reclocking on buffered outputs

| Model | Version Description | Part Number |
|---|---|---|
| **FOX I/O 1616 HD-SDI** | 16x16 I/O Board - Multi-Rate SDI | 70-966-01 |

## FOX 3G I/O SM P

### Fiber Optic Multi-Rate SDI I/O Board for the FOX Matrix Series

FOX 3G I/O 1616 SM P

FOX 3G I/O 88 SM P

The Extron FOX 3G I/O SM P board is available as an option for the FOX Matrix Series modular fiber optic matrix switchers, and enables the transmission and distribution of fiber optic multi-rate SDI signals, including pathological signals, over singlemode fiber optic cabling. The board offers an 8x8 or 16x16 configuration for switching and distribution of multi-rate SDI signals up to 2.97 Gbps, including SDI, HD-SDI, and 3G-SDI. With the board, a FOX Matrix switcher can be configured as a dedicated multi-rate SDI matrix switcher, or with a combination of multi-rate SDI and fiber optic matrix switching solutions. The FOX 3G I/O SM P board is compliant with SMPTE 259M, 292M, 424M, RP 178, and RP 198 for pathological immunity, and ITU digital video standards.

FEATURES

- Fiber optic multi-rate SDI I/O board for the FOX Matrix Series
- Supports multi-rate SDI at rates up to 2.97 Gbps
- Immunity to SDI and HD-SDI pathological signal patterns
- Passes embedded audio, ancillary ID and metadata information, and SD/HD-SDTI digital video signals
- Hot-swappable
- Individually buffered inputs and outputs
- Real-time status LED indicators for monitoring and troubleshooting
- Available as a 1310 nm singlemode I/O board for extreme distances up to 30 km (18.75 miles)

| Model | Version Description | Part Number |
|---|---|---|
| **FOX 3G I/O 1616 SM P** | 16x16 I/O Board - Singlemode, Path Comp | 70-965-01 |
| **FOX 3G I/O 88 SM P** | 8x8 I/O Board - Singlemode, Path Comp | 70-965-02 |



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# DVI & HDMI

## DTP HDMI 230

### HDMI Twisted Pair Extender

DTP HDMI 230 Tx DTP HDMI 230 Rx

The Extron DTP HDMI 230 is a transmitter and receiver set for transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CAT 5-type cable. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 230 accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same single twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters). The compact enclosure sizes and remote powering of either unit make the DTP HDMI 230 ideal for extending HDMI, audio, and bidirectional control in space-challenged environments.

FEATURES

- Transmits HDMI plus control and analog audio over a single CAT 5-type cable
- Extends 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters)
- Compatible with CAT 5, CAT 6, and CAT 7 twisted pair cable
- Accepts additional analog stereo audio signals
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- HDCP compliant

| Model | Version Description | Part Number |
|---|---|---|
| **DTP HDMI 230 Tx** | HDMI Transmitter | 60-1271-12 |
| **DTP HDMI 230 Rx** | HDMI Receiver | 60-1271-13 |

## HDMI DA2

### Two Output HDMI Distribution Amplifier

The Extron HDMI DA2 is a one input, two output HDMI distribution amplifier. The HDMI DA2 supports HDMI specification features including data rates up to 6.75 Gbps, 12-bit Deep Color, 3D, Lip Sync, and HD lossless audio formats. The HDCP-compliant distribution amplifier supports HDTV 1080p/60 and PC resolutions up to 1920x1200. The HDMI DA2 features two Extron-exclusive technologies: EDID Minder, which maintains continuous EDID communication between connected devices, and Key Minder, which continuously authenticates HDCP encryption between all devices, ensuring the simultaneous distribution of source content to both displays. The HDMI DA2 is ideal for applications that require the distribution of an HDMI source signal to two displays.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance
- HDCP compliant
- Supports HDTV 1080p/60 and PC resolutions up to 1920x1200
- Supports HDMI specification features including data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats
- Automatic input cable equalization to 50 feet at 1080p/60 with 8-bit color when used with Extron HDMI Pro Series cable
- Automatic color bit depth management
- Output muting via RS-232

| Model | Version Description | Part Number |
|---|---|---|
| **HDMI DA2** | Two Output HDMI | 60-997-01 |



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# DVI & HDMI

## HDMI Ultra Series

### Ultra Flexible High Speed HDMI Cables

The Extron HDMI Ultra Series cables are designed to transmit high-speed digital video and audio signals. The HDMI Ultra Series is engineered with Extron-exclusive ultra-flexible, 30 AWG cable and features a low bend radius and compact, gold-plated connectors. They are ideal for applications with tight equipment racks or AV presentation furniture, or with wall-mount or pole-mount displays. The HDMI Ultra cables conform to HDMI High Speed cable specifications and are available in lengths from 6 feet to 15 feet (1.8 m to 4.5 m).

FEATURES

- Certified for use with Cable Cubby and HSA surface access enclosures
- 1080p/60 verified
- Lengths from 6 feet to 15 feet (1.8 m to 4.5 m)
- Conforms to HDMI High Speed Cable Specifications:
  - Supports signals up to 1920 x 1200 @ 60 Hz and 1080p/60
  - Data rates to 10.2 Gbps
  - Refresh rates to 120 Hz
  - Color depth to 48 bits - 16 bits per color

| Model | Version Description | Part Number |
|---|---|---|
| **HDMI Ultra/6** | 6' (1.8 m) High Speed | 26-663-06 |
| **HDMI Ultra/9** | 9' (2.7 m) High Speed | 26-663-09 |
| **HDMI Ultra/12** | 12' (3.6 m) High Speed | 26-663-12 |
| **HDMI Ultra/15** | 15' (4.5 m) High Speed | 26-663-15 |

## DVID SL Ultra Series

### Ultra Flexible Single Link DVI-D Cables

The Extron DVID SL Ultra Series cables are designed to transmit high resolution single link DVI-D signals. The DVID SL Ultra Series is engineered with Extron-exclusive ultra-flexible, 30 AWG cable and features a low bend radius and compact, gold-plated connectors. They are ideal for applications with tight equipment racks or AV presentation furniture, or with wall-mount or pole-mount displays. The DVID SL Ultra cables support resolutions up to 1920x1200 @ 60 Hz and 1080p/60 and are available in lengths from 1.5 feet to 15 feet (0.4 m to 4.5 m).

FEATURES

- Certified for use with Cable Cubby and HSA surface access enclosures
- 1080p/60 verified
- Lengths from 1.5 feet to 15 feet (0.4 m to 4.5 m)
- Supports single link DVI-D signals up to 1920 x 1200 @ 60 Hz and 1080p/60:
  - Data rates to 4.95 Gbps
  - Refresh rates to 60 Hz
  - Color depth to 24 bits - 8 bits per color

| Model | Version Description | Part Number |
|---|---|---|
| **DVID SL Ultra/1.5** | 1.5' (45 cm) | 26-662-02 |
| **DVID SL Ultra/3** | 3' (90 cm) | 26-662-03 |
| **DVID SL Ultra/6** | 6' (1.8 m) | 26-662-06 |
| **DVID SL Ultra/9** | 9' (2.7 m) | 26-662-09 |
| **DVID SL Ultra/12** | 12' (3.6 m) | 26-662-12 |
| **DVID SL Ultra/15** | 15' (4.5 m) | 26-662-15 |

## LockIt™ Cable Adapter Tether

### Security Tether Kit for Cable Adapters

The Extron LockIt Cable Adapter Tether is designed to secure cable adapters, such as the Extron DPM-HDMIF DisplayPort-to-HDMI pigtail adapter, to its host cable, minimizing loss or theft. Simply slip one end of the 14" (35.6 cm) LockIt Adapter Tether over the adapter pigtail, and the other over the cable end, and crimp the metal sleeves to hold the tether in place. Matching white heat shrink tubing is provided to cover the metal sleeves for a clean, finished appearance. The LockIt Adapter Tether is available in white and sold in packages of 10.

FEATURES

- Secures cable adapter to its host cable to prevent loss or minimize theft
- Ideal for use with pigtail-style adapters such as the Extron DPM-HDMIF
- Easy to install - adjusts to fit a variety of pigtail lengths and cable types
- 14" (35.6 cm) white nylon coated stainless steel wire construction
- Includes crimp-style metal sleeves and matching heat shrink tubing
- Sold in packages of 10

| Model | Version Description | Part Number |
|---|---|---|
| **LockIt Cable Adapter Tether** | LockIt Adapter Tether; Package of 10 | 101-021-10 |



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# DISPLAYPORT

## DP DA2

### Two Output DisplayPort Distribution Amplifier

The Extron DP DA2 is a one input, two output DisplayPort distribution amplifier. The DP DA2 is HDCP compliant and supports data rates up to 10.8 Gbps and computer resolutions up to 2560x1600 @ 60 Hz. The DP DA2 features two Extron-exclusive technologies: EDID Minder®, which maintains continuous EDID communication between connected devices, and Key Minder®, which continuously authenticates HDCP encryption between all devices, ensuring the simultaneous distribution of source content to both displays. Dual-mode DisplayPort support allows source signals to be sent to HDMI, DVI, or VGA display devices with appropriate adapters. The DP DA2 is ideal for applications that require the distribution of a DisplayPort source signal to two displays.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance
- Supports DisplayPort data rates up to 10.8 Gbps
- Supports PC resolutions up to 2560x1600 @ 60 Hz and HDTV 1080p/60
- HDCP compliant
- Outputs support Dual-mode DisplayPort for interoperability with HDMI, DVI, and VGA display devices
- Output muting control via RS-232 or contact closure

| Model | Version Description | Part Number |
|---|---|---|
| **DP DA2** | Two Output DisplayPort | 60-1221-01 |

## SW2 DP

### Two Input DisplayPort Switcher

The Extron SW2 DP is a two input, one output DisplayPort switcher. The SW2 DP is HDCP compliant and supports data rates up to 10.8 Gbps and computer resolutions up to 2560x1600 @ 60 Hz. It features EDID Minder®, which maintains continuous EDID communication with connected devices and ensures that the DisplayPort sources power up properly and maintain correct video output. The SW2 DP provides automatic input cable equalization up to 25 feet at 2560x1600 @ 60 Hz on Extron DisplayPort Series cable. Multiple control points, including front panel, RS-232, and auto-input switching, simplify integration into a variety of system designs. The SW2 DP switcher is ideal for applications that require the routing of two DisplayPort sources to a single display.

FEATURES

- EDID Minder® automatically manages EDID communication between connected devices
- Supports DisplayPort data rates up to 10.8 Gbps
- Supports PC resolutions up to 2560x1600 @ 60 Hz and HDTV 1080p/60
- HDCP compliant
- Automatic input cable equalization to 25 feet (7.6 meters) at 2560x1600 @ 60 Hz with Extron DisplayPort cables

| Model | Version Description | Part Number |
|---|---|---|
| **SW2 DP** | Two Input DisplayPort | 60-1210-01 |



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# USB

## USB Extender Series

### Twisted Pair Extender for USB Peripherals

The USB Extender Series enables USB peripheral devices to be remotely located up to 450 feet (135 meters) from the host computer. The extender consists of a transmitter and receiver set that are linked using a single, standard CAT 5/5e/6 or CAT 7 cable. The receiver features a built-in, active four port hub that supplies 5 Volts, 500 mA to each port to power attached devices. This allows peripherals such as smart phones, webcams, personal media players, and mass storage devices to be connected and powered or charged at the same time. The USB Extender Series is ideal for use in applications utilizing the Extron Annotator and remote touchscreen displays, as well as applications that require the remote location of USB peripherals such as interactive whiteboards, keyboards, mice, and other human interface devices.

FEATURES

- Extends USB peripherals up to 450 feet (135 meters) on one CAT 5/5e/6 or CAT 7 cable
- Supports USB 1.0, 1.1, and 2.0 standards with data transfer rates up to 480 Mbps
- Receiver features an integrated four port hub with 5 Volts, 500 mA available on each port
- Port Status LEDs
- Choice of tabletop and architectural form factors
- Form factors can be mixed and matched for optimum integration flexibility

USB Extender D Tx

USB Extender D Rx

| Model | Version Description | Part Number |
|---|---|---|
| **USB Extender D Tx** | Transmitter - Decora Version - White | 60-1252-13 |
| **USB Extender D Rx** | Receiver - Decora Version - White | 60-1252-23 |

# LINE DRIVERS & EXTENDERS

## Extender Plus

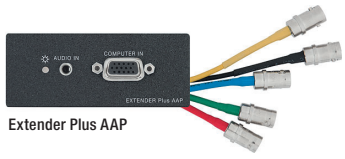
### VGA and Audio Line Driver with EDID Minder®

The Extron Extender Plus is a one input, one buffered output line driver that extends VGA-QXGA and HDTV component video signals up to 250 feet (75 m) on Extron MHR Mini High Resolution or similar cables. It also accepts unbalanced computer stereo audio and converts it to balanced, line level stereo audio. A variable level/peaking control provides equalization to compensate for signal loss and high frequency attenuation due to long cable runs. To simplify integration, the Extender Plus features EDID Minder®, an Extron-exclusive technology that automatically manages EDID communication between devices. Available in Decora®-style and AAP form factors, the Extender Plus is ideal for a wide range of applications to extend computer-video and audio signals over long cable runs.

FEATURES

- Extends VGA signals up to 250 feet (75 meters) over Extron MHR Mini High Resolution cable
- 400 MHz (-3 dB) RGB video bandwidth
- Supports PC resolutions up to 2048x1536 and HDTV component video signals
- EDID Minder® automatically manages EDID communication between connected devices
- Three-position peaking/gain control helps maintain video signal integrity over long cable runs
- Active PC audio interfacing converts unbalanced audio to balanced line level audio

Extender Plus D



Extender Plus AAP

| Model | Version Description | Part Number |
|---|---|---|
| **Extender Plus D** | Decora - White | 60-1261-22 |
| **Extender Plus AAP** | AAP - Black | 60-1262-12 |
| **Extender Plus AAP** | AAP - White | 60-1262-22 |



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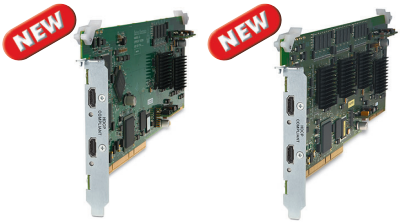
Extron®

# VIDEOWALL PROCESSORS

## Quantum® Elite

### HDCP-Compliant Scalable Videowall Processing System




HDMI HDCP Compliant Input Card

HDMI HDCP Compliant Output Card

The Extron Quantum® Elite is an HDCP-compliant, scalable, expandable videowall processor configurable to support a variety of input, output, and windowing capabilities. It features high performance video scaling capable of producing very high quality images. The Quantum Elite offers two card cages that support various combinations of input and output cards for HDMI, DVI, RGB, HDTV or video sources. Hundreds of additional DVI or RGB sources can be streamed over an IP network to the Quantum Elite using the Extron QGE 100 graphics capture encoder. Each HDMI or DVI-I dual output card supports up to 128 video/graphic source windows, and multiple Quantum Elite card cages can be cascaded to create very large display arrays. A dedicated, high-speed video/graphic bus maintains real-time performance even under heavy loading of inputs.

#### FEATURES

- Scalable videowall processing for large videowalls with up to 28 displays or more
- Card frame videowall processing system available with 8 or 15 slots
- HDCP-compliant input/output options
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- High speed, dedicated video/graphic bus delivers real-time performance
- Dual HDMI/DVI output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- Dual DVI/RGB output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- Up to 128 video/graphic windows per dual output card
- Dual input card for HDMI or DVI graphics and video
- Dual input card for DVI signals
- Dual input card for analog RGB or HD component video signals
- 12-channel video input card supports any mix of composite or S-video signals
- IP streaming enables interfacing of hundreds of RGB/DVI input signals with QGE 100 Quantum Graphics Encoders
- Ruggedized real-time operating system and power redundancy features support 24/7 operation

| Model | Version Description | Part Number |
|---|---|---|
| **QEC O2HDMI** | Quantum Elite HDMI Output Card | Call |
| **QEC I2HDMI** | Quantum Elite HDMI Input Card | Call |

## Quantum® Connect

### HDCP-Compliant Videowall Processing System

The Extron Quantum® Connect is an HDCP-compliant videowall processor that delivers the same high quality video scaling, windowing capability, and reliable, real-time performance as Extron's flagship Quantum Elite. Quantum Connect is ideal for small to medium-sized videowalls with two to 14 screens in installations with permanent AV system configurations. It supports a wide variety of input, output, and windowing capabilities in a small form factor, and features high performance video scaling technology capable of producing superior quality images. The Quantum Connect is a non-expandable card-cage design that is populated at the factory with user-selected combinations of input and output cards for HDMI, DVI, RGB, HDTV or video sources. Each HDMI or DVI-I dual output card supports up to 128 video/graphic source windows.

#### FEATURES

- Videowall processing for mid-sized videowalls with up to 14 displays
- Card frame videowall processing system available with eight slots
- HDCP-compliant input/output options
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- High speed, dedicated video/graphic bus delivers real-time performance
- Dual HDMI/DVI output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- Dual DVI/RGB output card supports resolutions up to 1920x1200 and HDTV 1080p/60
- Up to 128 video/graphic windows per dual output card
- Dual input card for HDMI or DVI graphics and video
- Dual input card for DVI signals
- Dual input card for analog RGB or HD component video signals
- 12-channel video input card supports any mix of composite or S-video signals
- Supports digital and analog input signals up to 1920x1200
- Optimal reliability

| Model | Version Description |
|---|---|
| **Quantum Connect** | Videowall Processing System |



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# STREAMING AV

## JMP 9600

### Two-Channel JPEG 2000 HD Video Player

The JMP 9600 HD and JMP 9600 2K are high resolution video players that provide 2D and 3D playback of JPEG 2000 encoded video files at up to 250 Mbps. The players are ideal for entertainment and commercial applications where superior image quality is critical to the audience experience. The JMP 9600 offers two playback channels that can be independently controlled or synchronized for super widescreen or 3D displays.

#### FEATURES

- JPEG 2000 DCP file playback via HD-SDI or DVI-I
- Plays back JPEG 2000 encoded content at up to 250 Mbps with 36 bits per pixel and 4:4:4 color sampling
- Dual outputs can operate as two independent sources or as two synchronized outputs
- Multiple JMP 9600 2K units can lock together for multi-screen applications
- 1080p HD and 2K playback at up to 50/60p, JMP 9600 2K model only
- Genlock input and linear time code input and output, JMP 9600 2K model only
- Standard JMP 9600 models feature 1 TB of hard disk storage capacity
- 128 GB solid state storage models are available on a build-to-order basis

| Model | Version Description | Part Number |
|---|---|---|
| **JMP 9600 HD 128** | JPEG 2000 Media Player HD 128 GB SSD .... | 60-1135-02 |
| **JMP 9600 2K 128** | JPEG 2000 Media Player 2K 128 GB SSD..... | 60-1136-02 |

## SME 100

### H.264 Streaming Media Encoder

The Extron SME 100 is a live streaming media encoder that interfaces with DVI, RGB, HDTV, and standard definition signals for delivering media over IP networks. It is designed specifically for pro AV applications and features an integrated three-input switcher with audio, plus buffered loop-throughs for simplified integration into AV systems. The SME 100 employs standards-based H.264 / MPEG-4 AVC and AAC encoding, and outputs an IP stream that can easily be decoded and viewed on desktop or laptop PCs. High performance Extron signal processing scales and optimizes video input signals for the intended viewing application. Encoding controls also provide adjustments for bit rate and quality. By extending AV signals over networks, the SME 100 significantly expands AV system capability.

#### FEATURES

- Streams DVI, RGB, HDTV, and video signals with audio over IP networks
- Supports input signal resolutions up to 1920x1200, including HDTV 1080p/60
- Available in two models supporting streaming at SD or HD resolutions
- Standards-based H.264 / MPEG-4 AVC video compression
- Integrated three-input AV switcher
- Buffered input loop-throughs for video and audio
- DVI, RGB, HDTV, and standard definition video upscaling and downscaling
- Auto Input Format Detection
- Auto-Image™ setup
- Encoding quality controls including video resolution, video bit rate, frame rate, constant or variable bit rate control, GOP length, and audio bit rate
- Streaming presets for quick recall of streaming profiles based on target resolution or bit rates
- Auto Input Memory
- EDID Minder® automatically manages EDID communication between connected devices
- Audio breakaway
- Picture controls for brightness, contrast, color, tint, detail, as well as horizontal and vertical positioning, sizing, and zoom
- Advanced deinterlacing
- Internal test patterns for setup
- Ethernet monitoring and control

| Model | Version Description | Part Number |
|---|---|---|
| **SME 100 HD** | H.264 HD Encoder..... | 60-1061-01 |
| **SME 100 SD** | H.264 SD Encoder..... | 60-1061-02 |



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# AUDIO PRODUCTS & SPEAKERS

## DMP 128

### 12x8 ProDSP™ Digital Matrix Processors

The Extron DMP 128 Digital Matrix Processor is a 12x8 audio mixer featuring Extron ProDSP™, automixing, I/O expansion capabilities, and available AEC - acoustic echo cancellation. The DMP 128 offers a configuration approach to DSP that simplifies mixing, routing, conferencing, and room optimization. Quick and intuitive configuration using the DSP Configurator™ Software allows the DMP 128 to be installed in very little time, with easy-to-learn adjustments that can be heard in real-time. A digital audio expansion port allows two DMP 128 units to be linked together to expand input and output signal management and routing capabilities. The DMP 128 is ideal for presentation and conferencing applications in boardrooms, courtrooms, and conference centers that require advanced matrix mixing with DSP.

#### FEATURES

- Three models with 12 mic/line inputs and 8 outputs:
  - 12x8 ProDSP processor
  - 12x8 ProDSP processor with AEC
  - 12x8 ProDSP processor with AEC and POTS interface
- Digital audio expansion port for linking two DMP 128 units
- Gating automixer with eight gate groups
- ProDSP™ audio signal processing
- Studio grade 24-bit/48 kHz analog-to-digital and digital-to-analog converters
- Fixed, low latency DSP processing
- DSP Configurator™ Software
- Intuitive Graphical User Environment
- Building Blocks processor templates
- 20 digital I/O ports for remote control or feedback

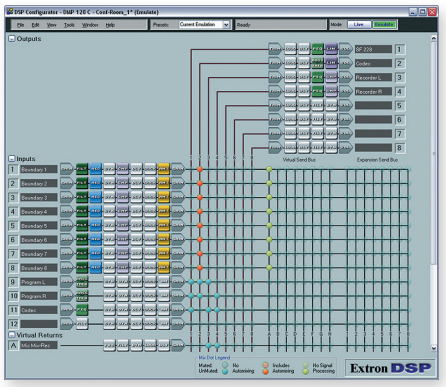
DMP 128

DMP 128 C

DMP 128 C P

### Flexible Routing Within the DMP 128

The DMP 128 features 12 mono mic/line inputs, eight with phantom power. These inputs can be matrix mixed into any of the eight output buses to create finely tuned audio zones for the corresponding outputs. In addition, the 12 inputs can also be routed to any of the eight "virtual" buses to allow inputs to be processed together as a group, before routing back into the output buses. The flexible routing capabilities within the DMP 128 allow system designers to create simple or complex signal management schemes to accommodate a wide variety of sound system application requirements.




DSP Configurator™

### Expanded Routing Across Two DMP 128 Processors

An expansion port allows two DMP 128 units to be linked together via a single shielded CAT 6 cable, allowing eight matrix mixes of the inputs and the eight virtual paths to be sent to the connected unit. The expansion buses allow designers to create audio matrix mixes with advanced I/O and signal management scenarios combining the capabilities of both DMP 128 processors.

### Acoustic Echo Cancellation

The DMP 128 C models include Extron AEC for conferencing applications. AEC - acoustic echo cancellation prevents audio at the near end from being returned to the far end as echo, ensuring clear, natural conversations for far end participants. The DMP 128 C includes eight independent channels of high performance AEC, as well as selectable noise cancellation. AEC processing can be challenged by conditions such as double-talk, when talkers from both ends are speaking simultaneously, and when near end talkers use wireless microphones. Extron AEC features advanced algorithms that deliver fast echo canceler convergence for optimal intelligibility.

### Gating Automixer

The DMP 128 features a gating automixer with eight gate groups for management of microphone signal levels. The amount of signal level reduction is user-selectable per channel, to avoid the "chopped" sound characteristic of a traditional automixer when a mic is gated off. When a DMP 128 is linked to another unit through the expansion port, each incoming expansion bus can be assigned to an automixer gating group.

The DMP 128 includes several advanced automixing features for optimizing microphone management. Multiple trigger protection allows only the microphone with the highest signal to be active while the rest are gated off. A global automixer configuration screen in the DSP Configurator Software enables fast, intuitive management of all microphones and groups in a centralized user interface. The number of open microphones can be specified in the automixer, to limit the number of active microphones at one time.

| Model | Version Description | Part Number |
|---|---|---|
| **DMP 128** | 12x8 ProDSP Processor | 60-1211-01 |
| **DMP 128 C** | 12x8 ProDSP Proc. w/AEC | 60-1178-01 |
| **DMP 128 C P** | 12x8 ProDSP Proc. w/AEC and POTS | 60-1179-01 |



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# AUDIO PRODUCTS & SPEAKERS

## XPA 4002

### Two Channel Amplifier - 400 Watts Per Channel

The Extron XTRA™ Series XPA 4002 is a 1U, convection-cooled power amplifier delivering two channels of 400 watts rms. This professional grade amplifier features a 100 dB signal-to-noise ratio with 0.1% THD+N. The XPA 4002 is an ENERGY STAR® qualified amplifier with an Extron exclusive, highly efficient, advanced Class D amplifier design. It also features patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. The XPA 4002 is half the size of comparable amplifiers, conserving rack space and weighing only 9 lbs (4 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

#### FEATURES

- Two models with 800 watts rms output power per model:
  - 2 x 400 watts @ 4 ohms; 2 x 200 watts @ 8 ohms; 1 x 800 watts @ 8 ohms (bridged)
  - 2 x 400 watts @ 70 volts
- ENERGY STAR® qualified amplifier
- Professional grade signal-to-noise and THD+N performance
- Extron Patented CDRS™ - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - no need for power sequencing
- Power factor correction - removes harmonic content on AC line
- Rack-mountable 1U, full rack width enclosure

ENERGY STAR

Learn more about cost saving XTRA™ technologies **www.extron.com/xtrapaper**

| Model | Version Description | Part Number |
|---|---|---|
| **XPA 4002** | Two Channel Amp - 400 Watts/Ch | 60-1244-01 |
| **XPA 4002-70V** | 70 V Two Channel Amp - 400 Watts/Ch | 60-1245-01 |

## SM 3

### Compact Full-Range Speaker with SpeedMount™

The Extron SM 3 is a compact, fast-installing flush mount speaker featuring the Extron SpeedMount™ System. The enclosure measures less than 4" (10.2 cm) deep. The 8 ohm speaker features a 3" (7.6 cm) full-range driver and tuned bass port, a wide frequency response of 75 Hz to 18 kHz, and a power rating of 15 watts continuous pink noise, 30 watts continuous program capacity. SpeedMount is an Extron-exclusive, concealed mounting system designed to speed up installation. During rough-in, electrical contractors can install a 0° or 10° mounting plate on the wall and terminate the speaker cable to the mount's integrated wiring contacts. Later, installers can slide the SM 3 speaker onto the mount and secure it into place with a "click," while automatically connecting to the wiring contacts.

#### FEATURES

- Compact low profile, full-range speaker
- Exclusive SpeedMount™ mounting system included with 0° and 10° mounting plates
- 8 ohm nominal impedance
- 3" (7.6 cm) full-range driver with a tuned bass reflex port
- Frequency response: 75 Hz to 18 kHz
- 15 watts continuous pink noise, 30 watts continuous program
- Flush mount design with shallow profile
- Speaker easily slides onto mounting plate, connects to wiring contacts, and secures into place with a "click"
- Complies with ADA requirements on protrusion limits when used with 0° mounting plate
- Hidden locking speaker release mechanism
- Black or white high-impact enclosure
- Dimensions - with 0° mounting plate: 8.75" H x 5.75" W x 4.0" D (22.2 cm H x 14.6 cm W x 10.2 cm D)
- 5 year parts and labor warranty

To see SpeedMount in action, visit **www.extron.com/speedmount**

| Model | Version Description | Part Number |
|---|---|---|
| **SM 3** | Low Profile - 3" Driver, Black, Pair | 42-133-02 |
| **SM 3** | Low Profile - 3" Driver, White, Pair | 42-133-03 |



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# NEW REGIONAL OFFICES

## Extron Expands with Eleven New Regional Offices

**Silicon Valley - Dallas - Chicago - Washington DC - New York - Toronto - Mexico City - Moscow - Johannesburg - New Delhi - Beijing**

Extron will open eleven additional new regional offices for training and product demonstration worldwide. The new offices will be located in Silicon Valley, Dallas, Chicago, New York, Washington DC, Toronto, Mexico City, Moscow, Johannesburg, New Delhi, and Beijing.

With offices throughout the world, Extron product demonstration and training will be more accessible and available to customers. Each facility will include a state-of-the-art training room fully equipped to showcase and demonstrate the latest in Extron technologies and solutions. Staffed by Extron S3 Institute experts, these facilities will feature a familiar variety of Extron training choices, including courses to pursue various Extron Certifications.

The Washington DC and Beijing offices are now open, and the Dallas area facility is scheduled to open in the fourth quarter of this year. More details regarding the other new offices will be announced soon. After the expansion, Extron will have more than 30 offices worldwide to serve its customers.



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Extron CERTIFIED

## XTP Systems Certification Program

### Establish Your Knowledge of Digital Systems

The Extron XTP Systems Certification program involves online and instructor-led training for design and implementation of enterprise-wide digital systems based on Extron's XTP Systems. Step-by-step instruction provides a balanced approach to theory and hands-on application with an emphasis on the practical aspects of designing, installing, and supporting digital AV systems.

Successful completion of the XTP Systems Certification program ensures a thorough understanding of XTP System design and implementation, and provides recognition and validation of newly acquired expertise with digital applications.

### Certification Categories

Extron XTP Systems Certification is awarded by discipline:

- **XTP Systems for Design Engineers: XTP-E**
- **XTP Systems for Technicians: XTP-T** Coming Soon

## Certification Components

### Online

**Digital AV Technologies**

The online course provides the learner an understanding of digital video and audio signal formats, the anatomy of a digital video signal, understanding EDID and defining how DRM impacts digital AV system design. It also provides insight into what to expect as the "analog sunset" continues to pass and how to identify digital issues found within professional AV systems as more components enter into the digital realm.

Note: The online component must be completed before registering for the instructor-led component of the XTP Systems Certification program.

### Instructor-Led

**XTP System Technologies for Design Engineers**

Students attend concentrated two day instructor-led training and sit for a final exam in the student's core discipline. The instructor-led portion of the Extron XTP Systems Certification program consists of the following content:

Day 1: **XTP Systems Theory**

Students will gain a complete understanding of system design for Extron XTP Systems. Instruction includes the general principles of system management, maintenance, and support. This day concludes with an exam on learned content.

Day 2: **XTP Systems for Design Engineers: XTP-E**

Coursework covers complete XTP System design concepts, complex system configuration, and designing for real-world scenarios. The final exam for XTP-E certification is focused on system design and configuration.

## How To Enroll

**Contact your Extron Support Representative or visit www.extron.com/training/xtpcert click on the Enroll Now button on the right and an Extron Support Representative will contact you.**

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